

FIRST NAMED APPLICANT

## UNITED STATE DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

CS/378 355 SERIAL NUMBER

FILING DATE

ATTORNEY DOCKETT NO.

		EXAMINER	
		ART UNIT	PAPER NUMBER
			17
		DATE MAILED:	
EXAMINER INTERV	IEW SUMMARY H	RECORD	
All participants (applicant, applicant's representative, PTO personnel):	.) 1		
(1) Collen A. Bear	_ (3) /- tea	Patst	
(1) Collen A. Beard (2) Jeffe, E. Russel	(4)	<del></del>	
Date of interview August 25,1997	_		
Type: ☑ Personal (copy is given to ☐ applicant ☐ a	pplicant's representativ	re).	
Exhibit shown or demonstration conducted:   Yes   No. If yes, brief			
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Agreement was reached with respect to some or all of the claims in qu	Jestion. Estwas not rea	acried.	
Claims discussed:			
A I/			
Identification of prior art discussed:			
		7)	\
Description of the general nature of what was agreed to if an agreement w	as reached, or any other	er comments: التربينية والم	cicquin.
correction Filed 7 21-1997 is approved. App	11.4.11.	to it	10.153
correction ties interior is approved. The	11/2/21/2011/2	- Properties	( 32/1/23
requiring branched tether on the rultipl	e growth of	fecto melecule	circle thy
attached to each tether Exercise	will exter a	imerchet if	nd only if a
new south of his limitation does not s	hermant art	which fractions	- son goods such ex
(A fuller description, if necessary, and a copy of the amendments, if availa attached. Also, where no copy of the amendments which would render the	ble, which the examine	r agreed would render the crailable, a summary thereof	claims allowable must be must be attached.)
It is not necessary for applicant to provide a separate record of the			
Unless the paragraph below has been checked to indicate to the contrary. WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW action has already been filed, then applicant is given one month from this	A FORMAL WRITTEN (e.g., items 1-7 on the	RESPONSE TO THE LAS reverse side of this form).	if a response to the last Office
2. Since the examiner's interview summary above (including any att requirements that may be present in the last Office action, and since response requirements of the last Office action. Applicant is not in the last Office action.	achments) reflects a conce the claims are now	omplete response to each o allowable, this completed for	f the objections, rejections and orm is considered to fulfill the
box 1 above is also checked.	Ĩ	11 51, 1	

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Examiner Signature

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1. The proposed amendment filed July 21, 1997 raises the following new issues:

The proposed amendment to page 1, line 19, could not be entered because "ingestible" was deleted in the previous amendment.

The proposed amendment to claims 1 and 13 inserting the limitation "water soluble" would have raised new issues under 35 U.S.C. 112, fourth paragraph, with respect to claims 7 and 23, which would merely have repeated the limitation. There was no instruction in the proposed amendment to cancel claims 7 and 23.

The proposed limitations stating that the cells do not bind to the tethers raises new issues requiring further consideration and search, and raises issues of new matter. No such limitation or similar limitation was previously claimed. Further, there is no literal support for the limitation in the specification, and Applicants have not demonstrated that this limitation is an inherent characteristic of the tethers recited at page 6, line 27 - page 7, line 2.

The proposed limitations stating that each tether is able to bind more than one growth effector molecule raises new issues requiring further consideration and search, and raises issues of new matter. No such limitation or similar limitation was previously claimed. Further, the original disclosure (see page 7, lines 3-9) requires that such tethers be branched tethers, but the limitation "branched" was not included in the proposed amendment.

The proposed limitation in claim 33 stating that no soluble growth effector molecules are added during the method raises new issues requiring further consideration and search. No such limitation or similar limitation was previously claimed.

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2. Page 7, lines 3-6, of the response refers to a proposed change to Figure 2, but no such letter or proposed change were found with the response. Accordingly, the objection set forth in paragraph 1 of the final Office action is maintained.

- 3. The proposed amendments would have overcome the rejection under 35 U.S.C. 112, second paragraph, set forth in the final Office action with respect to antecedent basis for "the polymer" in claims 5, 6, 21, and 22 and would have overcome the rejection under 35 U.S.C. 112, fourth paragraph.
- The rejection under 35 U.S.C. 112, second paragraph, set forth in the final Office action with respect to "enhance the rate of target cell growth" is maintained. In their response (see page 7, lines 11-14), Applicants argue that the term is defined in the specification, but give no citation for the definition. The only discussion of an enhanced rate of target cell growth that the examiner is able to find is in Example 1, and it is not clear how an example can constitute a definition of claim terminology. For example, the example is limited to rat hepatocytes, EGF, and star POE, but the claims are not so limited. How does the example then define what the claim terminology means? In the absence of a definition for the claim terminology, the prior art references can not be distinguished on the basis that they do not enhance the rate of target cell growth or on the basis that the mechanism of their enhanced rate of target cell growth is not the mechanism intended by Applicants.
- 5. Concerning the European Patent Application '733, the polyethyleneimine would have been expected to be water-soluble because of the formation of cationic groups upon being brought into

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contact with water (see page 3, line 58 - page 4, line 1). It should also be noted that Applicants' claims do not require the tethers to be "very" soluble in aqueous solution, do not require the

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey E. Russel at telephone number (703) 308-3975. The examiner can normally be reached on Monday-Thursday from 8:30 A.M. to 6:00 P.M. The examiner can also be reached on alternate Fridays.

tethers to extend to their full length, and do not require them to be flexible. Patentability must be

based upon claimed, not unclaimed, differences over the prior art.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Cecelia Tsang can be reached at (703) 308-0254. The fax number for Art Unit 1811 is (703) 305-3014 and the telephone number for the Group 180 receptionist is (703) 308-0196.

Jeffrey E. Russel

Primary Patent Examiner

Art Unit 1811

**JRussel** 

August 15, 1997